



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Paul J. CAHILL) Group Art Unit: 1713
Serial No: 09/811,250) Examiner: Patricia A. Short
Filed: March 16, 2001) Attorney Docket No: 7613-80971
For: COMPOSITES FOR RAILROAD)
TIES AND OTHER PRODUCTS)

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

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Dear Sir:

The patents, published patent applications, abstracts and publications listed below were located during a prior patent search of the subject application. The patents, published patent applications, abstracts and publications listed below generally relate to subject matter of the invention, but do not fairly teach or suggest the claimed Composites For Railroad Ties And Other Products. Copies of the listed patents, published patent applications, abstracts and publications are enclosed for consideration by the Examiner.

Authorization is hereby given to charge any fees in connection with this Information Disclosure Statement to Deposit Account No. 23-0920.

1. Muschiatti, U.S. Patent No. 5,229,432, granted July 20, 1992, pertains to a High Melt Strength PET Polymers For Foam Applications And Methods Relating Thereto.
2. Rotter et al., U.S. Patent No. 5,288,764, granted February 22, 1994, pertains to Increased Throughput In Foaming And Other melt Fabrication Of Polyester.
3. Rotter et al., U.S. Patent No. 5,340,846, granted August 23, 1994, pertains to Increased Throughput In Melt Fabrication And Foaming Of Polyester.
4. Rotter et al., U.S. Patent No. 5,446,111, granted August 29, 1995, pertains to Increased Throughput In Melt Fabrication And Foaming Of Polyester.

5. Rotter et al., U.S. Patent No. 5,536,793, granted July 16, 1996, pertains to Concentrate For Use In The Melt Fabrication Of Polyester.
6. Cahill et al., U.S. Patent No. 6,083,585, granted July 4, 2000, pertains to Oxygen Scavenging Condensation Copolymers For Bottles And Packaging Articles.
7. European Application No. 90111144.3, filed June 13, 1990, Publication No. 0 405 227 A2, published January 2, 1991, of Astro-Valcour Incorporated, pertains to Low Density Foamed Thermoplastic Elastomers.
8. European Application No. 90111144.3, filed June 13, 1990, Publication No. 0 405 227 A3, published January 2, 1991, of Astro-Valcour Incorporated, pertains to Low Density Foamed Thermoplastic Elastomers.
9. International Application No. PCT/US97/13073, filed July 24, 1996, International Publication No. WO 98/03580, published January 29, 1998, of E.I. Du Pont De Nemours And Company pertains to a Blowing Agent Blends And Use Thereof In The Preparation Of Polyisocyanate-Base Foams.
10. International Application No. PCT/US94/12169, filed October 25, 1994, International Publication No. WO 95/11802, published May 4, 1995, of E.I. Du Pont De Nemours And Company pertains to Multilayer Sheet Material And Articles Formed Therefrom.
11. International Application No. PCT/US92/02664, filed April 9, 1992, International Publication No. WO 92/18561, published October 29, 1992, of E.I. Du Pont De Nemours And Company pertains to a Method Of Producing An Amorphous Plastic Layer, And Foam Article Thus Produced.
12. International Application No. PCT/US97/15239, filed August 28, 1997, International Publication No. WO 98/08896, published March 5, 1998, of Rutgers, The State University pertains to a Composite Building Materials From Recyclable Waste.
13. Publication: *"A Microcellular Processing Study of Poly (Ethylene Terephthalate) in the Amorphous and Semicrystalline States. Part I: Microcell Nucleation"* by Daniel F. Baldwin of The George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology, Chul B. Park of Department of Mechanical Engineering, University of Toronto and Nam P. Suh of Department of Mechanical Engineering, Massachusetts Institute of

- Technology, published by Polymer Engineering And Science, Mid-June 1996, Vol. 36, No. 11, pages 1437-1440.
14. Publication: "*High-Temperature Reactions of Hydroxyl and Carboxyl PET Chan End Groups in the Presence of Aromatic Phosphite*" by S.M. Aharoni, C.E. Forbes, W.B. Hammond, D.M. Hindenlang, F. Mares, K. O'Brien and R.D. Sedgwick of Chemical Sector Research Laboratory, Analytical Sciences Laboratory and Polymer Laboratory, Allied Corporation, published by Journal of Polymer Science: Part A: Polymer Chemistry, Vol.24, 1986, pages 1281-1296.
 15. Publication: "*Plastics Additives Handbook, Stabilizers, Processing aids, Plasticizers, Fillers, Reinforcements, Colorants for Thermoplastics*" by R. Gächter and H. Muller, published by Hanser Publishers (1983).
 16. Publication: "*Chain Extension of Recycled Poly (ethylene terephthalate) with 2,2-Bis (2-oxazoline)*" by Nicoletta Cardi, Riccardo Po, Giorgio Giannotta, Ernesto Occhiello, and Fabio Garbassi of Istituto Guido Donegani and Giuseppe Messina of Centro Ricerche Enichem ANIC, published by Journal of Applied Polymer Science, Vol. 50 1993, pages 1501-1509 (1993).
 17. Publication: "*Tertiary PET Recycling*", published by Chem Systems, May 1994, pages 1-65.
 18. Publication: Pennsylvania Department of Environmental Protection, Waste Tire Recycling Program at web site as follows
www.dep.state.pa.us/dep/DEPUTATE/AIR.com (November 28, 2000).
 19. Publication: Primix Financial Information, Environmental Impact and Composite Ties at web site www.primixcorp.com (December 4, 2000).
 20. SciFinder Abstract of Developing recycled plastic/composite railroad ties by Thomas Nosker and Richard Renfree of Center For Packaging Engineering, Rutgers University, published by Plast. Eng. 1999.
 21. SciFinder Abstract of Fiber orientation and the creation of structural plastic lumber by Thomas J. Nosker, Richard W. Renfree, and Kenneth E. Van Ness, of The Plastic & Composites Group, Inc. and Rutgers University, published by Plast. Eng. 1999.
 22. SciFinder Abstract of Production of foam grade PET by Al-Ghatta and Severini, of M & G Ricerche, Pozzilli, Italy published by Soc. Plast. Eng. 1996.

23. SciFinder Abstract of A microcellular processing study of poly (ethylene terephthalate) in the amorphous and semicrystalline states, Part II. Cell growth and process design by Daniel F. Baldwin, B. Chul, Nam P. Suh, and George W. Woodruff of Sch. Mechanical Eng., Georgia Inst. Technol., published by Polym. Eng. Sci. 1996.
24. SciFinder Abstract of A microcellular processing study of poly (ethylene terephthalate) in the amorphous and semicrystalline states. Part I. Microcell nucleation by Daniel F. Baldwin, Chul B. Park, Nam P. Suh, and George W. Woodruff, of Sch. Mechanical Eng., Georgia Inst. Technol., published by Polym. Eng. Sci. 1996.

Respectfully submitted,

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